

REPORT
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SUPPLEMENT TO
REPORT NO.

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SOURCE As indicated

INFORMATION ON PERSONNEL OF
CENTRAL AEROHYDRODYNAMICS INSTITUTE, USSR

[Comment: TsAGI (Tsentral'nyy Aerogidrodinamicheskiy Institut imeni N. Ye. Zhukovskogo, Central Aerohydrodynamics Institute imeni N. Ye. Zhukovskiy) was founded in Moscow in December 1918 as the chief scientific research organization for research and development in the aviation industry. Prior to World War II much information on the scientific work of the institute was published in the open press. Since the war, however, very little information on the activities of the institute and its personnel has appeared in Soviet scientific and technical publications and virtually no positive information has been evidenced in the overt literature of the past 5 years.

An extensive personnel identification check of the abstractors for the Referativnyy Zhurnal -- Mekhanika (RZhMekh) from October 1953 to March 1954 reveals that of the 100 known members of TsAGI at least 22 of them are engaged in abstracting for this journal. Analysis of the emphasis of interest in the subject matter being abstracted by these members of TsAGI leads to the supposition that TsAGI is actively engaged in contributory research and development in the Soviet guided missile program. Also, by inference, the material being abstracted indicates the abstractor's particular scientific field of continuing or new interest.

Information in this report on each member of TsAGI abstracting for RZhMekh is divided into three parts as follows: Section a is biographic; Section b lists the known published works of the abstractor; and Section c lists the articles abstracted, giving title of article, publication in which article first appeared, language (other than English or Russian) of original article, and the RZhMekh issue and abstract number.]

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CLASSIFICATION S-E-C-R-E-T

Sanitized Copy Approved for Release 2011/07/12 : CIA-RDP80-00809A000700240088-7

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1. ABRAMOVICH, Genrikh Naumovich
 - a. Biographic

Prof; Dr Tech Sci

Head, Gas Dynamics of Combustion Groups, TsAGI, 1949

Associate, TsAGI, 1943

Stalin 2d Prize for testing apparatus, 1942
 - b. Published Works

"Mechanics of Spreading Gas Detonation (Explosion) and Combustion" (Dok Ak Nauk, 55, No 2, 1947)

"Some Thermodynamic Properties of Noncompressor Jet Engines" (Tekh Vozdush Flota, No 2, 1947)
 - c. Articles Abstracted

"Motion of a Fluid in High-Capacity Driers," Ind. textile, 1953, No 794 (French) (RZhMekh, No 1, 1954, No 1553)

"Application of Air-Cleaning Devices," Heat and Ventilating Engineer, 1953, 26, No 309 (RZhMekh, No 2, 1954, No 2055)

"NAGA Sonic-Flow-Orifice Temperature Probe in High-Gas-Temperature Measurement," Trans ASME, 1953, 75, No 1 (RZhMekh, No 2, 1954, No 2072)

"Hydrogen Jets, Sensitive to Ultrasound. Diffusion of Hydrogen Jets in the Air," C.r. Acad. sci., 1953, 236, No 10 (French) (RZhMekh, No 2, 1954, No 2076)

"Experimental Study of the Trajectory of Free Submerged Jets in Hydraulic Models," Tr. Bakinskoy Labor. Okhrany Truda, 1953, No 1 (RZhMekh, No 1, 1954, No 1663)

"Propagation of a Twisted Jet in an Infinite Space, Submerged in the Same Fluid," Prik Mat i Mekh, 1953, No 1 (RZhMekh, No 1, 1954, No 1664)

"Deformation of Trajectories in Plane Submerged Jets Under the Action of Gravitational Forces," Tr. Bakinskoy labor. okhrany truda, 1953, No 1 (RZhMekh, No 2, 1954, No 2186)
2. DORODNITSYN, Anatoliy Alekseyevich
 - a. Biographic

Prof; Dr Tech Sci

Member, TsAGI, 1942-1947

Stalin 2d Prize in aerodynamics 1950; Stalin 2d Prize for wings for high-speed planes 1946; Stalin 2d Prize for publications 1943-1944

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b. Published Works

"The Boundary Layer in a Compressible Gas"; "Laminar Boundary Layers on a Body in Rotation"; "Approximate Method of Calculations on Laminar Boundary Layers Along a Wing"; "Concerning the Theory of a Daily Course of Temperature in a Mixed Stratum" (Dok Ak Nauk, 30, No 5, 1941)

"Laminar Boundary Layer in Compressible Fluid" (Dok Ak Nauk, 34, No 8, 1942)

"The Asymptotic Solution of Van der Pol's Equation" (Prikl Mat i Mekh, 11, No 3, 1947)

c. Articles Abstracted

"Theory of Air Flow Over Mountains," Quart. J. Roy. Meteorol. Soc. 1953, 79, No 339 (RZhMekh, No 1, 1953, No 173)

"The Laminar Boundary Layer Associated With the Retarded Flow of a Compressible Fluid," Aeronaut. Res. Council Repts. and Mem, 1953, No 2590 (RZhMekh, No 1, 1953, No 196)

"On Asymptotic Solutions for the Heat Transfer at Varying Wall Temperatures in a Laminar Boundary Layer With Hartree's Velocity Profiles," J. Aeronaut. Sci., 1953, 20 No 2 (RZhMekh, No 1, 1953, No 197)

"Compressible Laminar Boundary Layer on a Heat-Insulated Body," J. Aeronaut. Sci., 1953, 20, No 1 (RZhMekh, No 1, 1953, No 198)

3. EPSHTEYN, Leonid Abramovich

a. Biographic

Member, TsAGI, 1940

Member, Hydrodynamics Laboratory, TsAGI, 1945

Stalin 2d Prize for warship speed, 1947

b. Published Works

"Some New Experimental Opinions on the Phenomenon of Sliding" (Dok Ak Nauk, 26, No 8, 1940)

"Possibilities of a Theoretical Study of Cavitation as a Motion of a Special Kind of Compressible Fluid" (Dok Ak Nauk, 49, No 6, 1945)

"Negative Pressures and Cavitation in Fast-Flowing Water" (Zhur Tekh Fiz, 16, No 6, 1946)

c. Articles Abstracted

"Strength Tests by Towing in Water," Aircraft Engng, 1953, 25, No 287 (RZhMekh, No 1, 1953, No 116)

"Cavitation," Engineer, 1953, 195, No 5061 (RZhMekh, No 1, 1953, No 146)

"Cavitation in the Mixing Zone of a Submerged Jet," Houille blanche, 1953, 8, No 1, (French) (RZhMekh, No 1, 1953, No 147)

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"Experiences With the Functioning of By-Pass Canals," C. r. Acad Sci, 1953, 236, No 12 (RZhMekh, No 1, 1953, No 148)

"Fluid Dynamics," Industr and Engng Chem, 1953, 45, No 1 (RZhMekh, No 2, 1953, No 641)

"Increasing the Speed of Ships Based on Examples Copied From Nature," Techn i gospod morsk, 1953, 3, No 1 (Polish) (RZhMekh, No 1, 1953, No 176)

"Approximate Method of Calculating Ship Propellers," Techn i gospod morsk, 1953, 3, No 1 (Polish) (RZhMekh, No 1, 1953, No 179)

4. FEDYAYEVSKIY, Konstantin Konstantinovich

a. Biographic

Scientific Associate, TsAGI, 1948

Stalin 2d Prize for increasing speed of warships, 1947

b. Published Works

[No information]

c. Articles Abstracted

"Some Experiments on the Effect of a Single Roughness Element on Boundary-Layer Transition," J. Aeronaut. Sci, 1953, 20, No 4 (RZhMekh, No 2, 1953, No 728)

"Resistance Coefficients of Larger Pipelines," Techn mod-constr, 1953, 8, No 3 (French) (RZhMekh, No 2, 1953, No 731)

5. GOL'DENVEYZER, A. L.

a. Biographic

Member, TsAGI

b. Published Works

"Equations of the Theory of Thin Shells" (Prikl Mat i Mekh, 4, No 2, 1940)

"Momentless Theory of Shells Whose Middle Surface Is of a Curve of the Second Order" (Prikl Mat i Mekh, 11, No 2, 1947)

"Review of V. V. Novozhilov's Theory of Thin Shells" (Prikl Mat i Mekh, 12, No 1, 1949)

"On the Theory of Thin-Walled Rods" (Prikl Mat i Mekh, No 6, 1949)

"Application of the Solution of the Riemann-Hilbert Problem to Computation of Momentless Shells" (Prikl Mat i Mekh, 15, No 2, 1951)

c. Articles Abstracted

"The New Approach to Shell Theory: Circular Cylinders." J. Appl. Mekh, 1953, 20, No 1 (RZhMekh, No 2, 1953, No 802)

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"Calculation of Thin Shells, Profiled According to Surfaces of the Second Order of a Positive Curve, Under Concentrated Forces," Tr. Novocherkasskogo Politekh. In-va, 1953, 23 (RZhMekh, No 1, 1954, No 1703)

"On Stresses in a Flat Plate According to the Momentless Theory," Tr. Inst. matematiki i mekhaniki AN Uzb SSR, 1953, No 10 (RZhMekh, No 1, 1954, No 1709)

"A Note on the Solution for the Rectangular Membrane," J. Aeronaut. Sci, 1953, 20, No 3 (RZhMekh, No 1, 1954, No 1711)

"On the Question of the Strength of Compact Elements of Cylindrical Shells," Dopovidi AN URSR, 1953, No 4 (RZhMekh, No 1, 1954, No 1771)

6. KHALEZOV, Dmitriy Vasil'yevich

a. Biographic

Scientific Associate, TsAGI, 1943

Stalin 2d Prize for publications, 1942

b. Published Works

"A Manual for Designers," 1940-1942

c. Articles Abstracted

"Subsonic Compressibility Corrections for Propellers and Helicopter Rotors," Inst. Aeronaut. Sci, 1953, No 398 (RZhMekh, No 2, 1953, No 593)

"Wake Survey and Strain Gauge Measurements on an Inclined Propeller in the RAE 24-Ft Tunnel. Part I -- Wake Survey." Aeronaut. Res. Council Current Papers, 1953, No 117 (RZhMekh, No 2, 1954, No 2036)

"Noise Control for Ground Operation of the F-89 Airplane," J. Acoust. Soc. America, 1953, 25, No 3 (RZhMekh, No 3, 1954, No 2503)

"Status of Research on Propeller Noise and Its Reduction," J. Acoust. Soc. America, 1953, 25, No 3 (RZhMekh, No 3, 1954, No 2504)

"Effect of Pitch and Blade Width on Propeller Performance," Shipbuilder and Marine Engine Builder, 1953, 60, No 537 (RZhMekh, No 2, 1953, No 707)

7. KHASKIND, M. D.

a. Biographic

Dr Phys-Math Sci

Member, TsAGI

Member, Inst of Mechanics, Acad Sci USSR

b. Published Works

"Acoustical Radiation of Oscillating Bodies in a Compressed Liquid" (Zhur eksper i teoret fiz, 16, No 7, 1946)

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"Transmission of Sound Through a Hole in a Gas Flowing at Subsonic and Ultrasonic Velocities," (Zhur Tekh Fiz, 17, No 6, 1947)

"The Hydrodynamics of the Rolling and Pitching of Ships." Dissertation submitted for the degree of Dr Phys-Math Sci, Inst of Mechanics, Acad Sci USSR, 16 Dec 54 (Vechernyaya Moskva, 6 Dec 54)

c. Articles Abstracted

"Aerodynamic Coefficients of an Oscillating Airfoil With Control Surface in Two-Dimensional Subsonic Flow," J. Aeronaut. Sci, 1953, 20, No 3 (RZhMekh, No 3, 1953, No 1071)

"Ship Vibrations: the Virtual Inertia of a Spheroid in Shallow Water," Quart Trans Inst Naval Archit, 1953, 95, No 1 (RZhMekh, No 3, 1953, No 1134)

"On the Wave Resistance of a Convoy of Ships," Prik Mat i Mekh, 1953, 17, No 1 (RZhMekh, No 1, 1953, No 174)

"Calculation of the First Critical Speed in the Motion of Ships Through Channels," Izv Insta gidrol i gidrotekhniki AN Ukr SSR, 1953 (RZhMekh, No 2, 1953, No 703)

"Example of the Determination of the Interval of Noneffective Speed of Motion of Ships Through Channels," Izv. Insta. gidrol. i gidrotekhniki AN UkrSSR, 9 (RZhMekh, No 2, 1953, No 704)

"Method of Decreasing the Water Resistance in the Motion of Ships in Shallow Water Channels at Supercritical Speeds," Izv. Insta gidrol. i gidrotekhniki AN UkrSSR, 1953, 9 (RZhMekh, No 2, 1953, No 705)

"A Buoyant Rotating Life Raft," Tr. Lesotekh. Akademii imeni S. M. Kirova, 1953, No 71 (RZhMekh, No 3, 1953, No 1175)

"Calculation of a Floating Port Shelter," Rech. transport, 1953, No 2 (RZhMekh, No 3, 1953, No 1176)

"Calculation of Wave Resistance of Ships in Motion in a Channel of Limited Depth," Tr Leningr. korablestr. Insta, 1953, No 11 (RZhMekh, No 2, 1954, No 2136)

"On the Question of the Resistance of Water to the Motion of Rafts," Tr. Leningr. Insta. Inzh. vod. transporta, 1953, No 20 (RZhMekh, No 2, 1954, No 2137)

"Concerning Waves on the Surface of a Liquid, Formed From the Periodically Active Spherical Particles Under the Surface of the Liquid," Mekhanika. Sb. peri i obzorov inostr. periodich. lit-ry, 1953, No 3 (RZhMekh, No 3, 1954, No 2573)

"Investigation of the Relations Between the Parameters of Flow and the Resistance of Ships in a Boundary Current," Hansa, 1953, 90, No 1-2 (German) (RZhMekh, No 3, 1954, No 2576)

"Motion of a Cylindrical Body in a Fluid According to the Theory of Disappearing Viscosity (Two-Dimensional Steady Flow)," Prik Mat i Mekh, 1953, 17, No 1 (RZhMekh, No 1, 1953, No 185)

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8. LOYTSYANSKIY, Lev Gerasimovich

a. Biographic

Prof, TsAGI, 1946

Member, Inst of Mechanics, Dept tech sci, Acad Sci, USSR, 1942

Prof, Naval Academy imeni Voroshilov, Leningrad, 1947

Member, Leningrad Polytechnic Inst, 1948-1949

Head, Leningrad Sci Res Inst, 1948-1949

Stalin 2d Prize for publications, 1943-1944

b. Published Works

"Resistance of a Profile Section in a Gaseous Flow at Precritical Speeds" (Prikl Mat i Mekh, 13, No 2, 1949)

"An Approximation Method for the Integration of Laminar Boundary Layer Equations in an Incompressible Gas" (Prikl Mat i Mekh, No 5, 1949)

"The Boundary Layer in a Compressible Gas" (1942-1944)

"Approximate Method of Calculations of Laminar Boundary Layers on a Body in Rotation" (1942-1944)

"Calculation of the Coefficients of Resistance of Wing Profiles, Taking Into Consideration the Compressibility of Air" (1942-1944)

"Boundary Layers of the Wing Profile at High Speeds" (1942-1944)

c. Articles Abstracted

"Use of Hydrometric Air Vanes in the Air," C. r. Acad. Sci, 1953, 236, No 2, (French) (RZhMekh, No 1, 1953, No 102)

"The Calculation of Lift Taking Account of the Boundary Layer," Aeronaut. Res. Council Repts and Mem., 1953, No 2725 (RZhMekh, No 1, 1954, No 1518)

"Formation of Vortex Streets," J. Appl. Physics, 1953, 24, No 1 (RZhMekh, No 1, 1953, No 139)

"The Flow of Fluid Along Corners and Edges," Quart. J. Mech. and Appl. Math, 1953, 6, No 1 (RZhMekh, No 1, 1953, No 141)

"Whirlpools in a Liquid and Periodic Energy Losses," Chaleur et ind, 1953, 34, No 335, No 336 (French) (RZhMekh, No 1, 1954, No 1596)

"Vortex Streets in Incompressible Media," Appl. Mech. Revs. 1953, 6 No 9 (RZhMekh, No 2, 1954, No 2096)

"Motion of a Sphere in a Viscous-Plastic Liquid Dispersed System," Dok Ak Nauk, 1953, 88, No 1 (RZhMekh, No 1, 1953, No 181)

"The Stability of Viscous Flow Between Rotating Cylinders in the Presence of a Magnetic Field, Proc. Roy. Soc, 1953, A216, No 1126 (RZhMekh, No 1, 1953, No 183)

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- "Wake Studies of Plane Surfaces," Shipbuilder and Marine Engine Builders, 1953, 69, No 5 (RZhMekh, No 1, 1953, No 191)
- "Formation of the Boundary Layer on a Plate Suddenly Brought Into Motion From a State of Rest," Rech. Aeronaut, 1953, No 31 (French) (RZhMekh, No 1, 1953, No 199)
- "Three-Dimensional Laminar Boundary Layer Flow," Inst. Aeronaut. Sci. Preprint No 405, 1953 (RZhMekh, No 1, 1953, No 200)
- "On the Flow Between Two Rotating Coaxial Disks," Proc. Cambridge Philos. Soc, 1953, 49, No 2 (RZhMekh, No 2, 1953, No 719)
- "Tacky Adhesion -- Preliminary Study," J. Colloid Sci, 1953, 8, No 1 (RZhMekh, No 2, 1953, No 737)
- "The Couple on a Rotating Spheroid in a Slow Steam," Proc. Cambridge Philos. Soc, 1953, 49, No 2 (RZhMekh, No 2, 1953, No 1182)
- "On the Recovery Factor for Hypersonic Flow With a Self-Induced Pressure Gradient," J. Aeronaut. Sci, 1953, 20, No 4 (RZhMekh, No 2, 1953, No 1183)
- "Boundary-Layer Flow Along a Flat Plate With Uniform Suction," Aeronaut. Res. Council Repts. and Mem, 1953, No 2628 (RZhMekh, No 2, 1954, No 1647)
- "Some Properties of the Solutions of Navier Equations," Cahiers phys, 1953, No 42, (French) (RZhMekh, No 2, 1954, No 2151)
- "Laminar-Flow Forced Convection in Rectangular Tubes," Trsns. Amer. Soc. Mech. Engrs, 1953, 75, No 5 (RZhMekh, No 2, 1954, No 2153)
- "Friction Factors for Turbulent Flow in Pipes," Proc. Amer. Soc. Civil Engrs, 1953, 79, No 197 (RZhMekh, No 2, 1954, No 2156)
- "Heat Transfer in the Vicinity of the Leading Critical Point of a Body in Rotation," Mekhanika, Sb. per. i obzorov, 1953, No 3 (RZhMekh, No 2, 1954, No 2159)
- "Experimental Investigation of the Breaking Away of the Boundary Layer on Needles Supported in Front of Blunt-Nose Bodies in a Supersonic Air Flow," Philos. Mag, 1952, 43, No 342 (RZhMekh, No 2, 1954, No 2160)
- "Nonuniform Heat Transfer to Fluids Flowing in Conduits," Appl Sci Res, 1953, A4, No 1 (RZhMekh, No 2, 1954, No 2163)
- "Forced Vibrations of an Incompressible Viscous Liquid in a Sturdy Horizontal Pipe. Calculation of the Friction Force." Helvetica Physica Acta, 1952, 25, No 4 (RZhMekh, No 3, 1954, No 2581)
- "Temperature Gradients in Turbulent Gas Streams," Industr and Engng Chem, 1953, 45, No 3 (RZhMekh, No 1, 1953, No 217)
- "Mass Transfer Between Solid Wall and Fluid Streams, Mechanism and Eddy Distribution Relationships in Turbulent Flow." Industr. and Engng Chem, 1953, 45, No 3 (RZhMekh, No 1, 1953, No 218)
- "On Turbulent Flow Between Parallel Plates," J. Appl. Mech, 1953, 20, No 1 (RZhMekh, No 2, 1953, No 743)
- "Symmetric Turbulent Mixing of Two Parallel Streams," J. Appl. Mech, 1953, 20, No 1 (RZhMekh, No 2, 1953, No 751)

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"Critic of Polyempirical Theories of Turbulence and an Approximate Calculation of the Active Distribution of the Length of Mixture," Nauchn. tr. Kazanskogo in-ta inzhenerov-stroiteley neft prom-sti, 1953, No 1 (RZhMekh, No 2, 1954, No 2168)

"Note on Self-Propagation of Turbulent Spots," Quart. Appl. Math, 1953, 11, No 2 (RZhMekh, No 3, 1954, No 2618)

9. MARTYNOV, A. K.

a. Biographic

Member, TsAGI

b. Published Works

[No information]

c. Articles Abstracted

"Leading-Edge Flaps and Variable Camber. Notes on Some Research Carried Out Since 1945," Aircraft Engng, 1953, 25, No 288 (RZhMekh, No 1, 1953, No 108)

"Ground Tests on Helicopters," Engineering, 1953, 175, No 4537 (RZhMekh, No 1, 1953, No 110)

"Basic Design Philosophy and Uses of Convertible Aircraft," Amer. Helicopter, 1953, 29, No 2 (RZhMekh, No 2, 1954, No 2032)

"Composite Aircraft With Rotary and Fixed Wing Components," Amer. Helicopter, 1953, 29, No 3 (RZhMekh, No 2, 1954, No 2033)

"Experimental With Flat Plates," J. Roy. Aeronaut. Soc., 1953, 57, No 507, (RZhMekh, No 2, 1953, No 664)

10. MILLIONISHCHIKOV, M. D.

a. Biographic

Member, Moscow Aviation Inst., 1939

Member, TsAGI

b. Published Works

"Decay of Homogeneous Isotropic Turbulence in a Viscous Incompressible Fluid" (Dok Ak Nauk, 22 No 5, 1939)

"Decay of Turbulence in Wind Tunnels" (Dok Ak Nauk, 22 No 5, 1939)

"On the Theory of Homogeneous Isotropic Turbulence" (Dok Ak Nauk, 32, No 9, 1941)

"On the Role of Third Moments in Isotropic Turbulence (Dok Ak Nauk, 32, No 9, 1941)

"Applied Gas Dynamics" (book), 1948

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c. Articles Abstracted

"Increasing the Thrust of Jet Engines After Calculation of the Ejection of the Auxiliary Consumption of Air," Z. Vereines dtsch. Ingr. 1953, 95, No 1 (German) (RZhMekh, No 2, 1953, No 609)

"Pressure Drop in Blast Furnace in Cupola," Indust. and Engng Chem. 1953, 45, No 2 (RZhMekh, No 2, 1953, No 610)

"Redesign Stops Compressor Bottle Failures," Pipe Line News, 1953, 25, No 2 (RZhMekh, No 2, 1953, No 617)

"Method of Calculating the Accumulating Capacity of a Gas Line," Tr. In-ta isop'zovaniya gaza AN UkrSSR, 1953, No 1 (RZhMekh, No 1, No 1549)

"The Most Profitable From the Economic Point of View of Diameters of Gas Lines of Great Extent," Gaz, voda i techn. sanit, 1953, 27, No 2, (Polish) (RZhMekh, No 1, 1953, No 194)

"Quadruple Velocity Correlations and Pressure Fluctuation in Isotropic Turbulence," J. Aeronaut. Sci, 1953, 20, No 3 (RZhMekh, No 2, 1953, No 746)

"Laminar and Turbulent Flow of Air and Carbon Dioxide in Conical Pipes With Small Taper Near Critical Significances of Reynolds' Number," Z. angew. Phys, 1953, 5, No 3 (German) (RZhMekh, No 2, 1953, No 755)

11. MINSKIY, Ye. M.

a. Biographic

Member, TsAGI, 1945

Member, Power Engineering Inst imeni G. M. Krzhizhanovskiy, Dept Tech Sci, Acad Sci, 1940

b. Published Works

"Statistical Analysis of Path of the Compounds' Path in a Turbulent Stream" (Dok Ak Nauk, 28, No 8, 1940)

"Characteristics of Fully Developed Turbulent Motion for Large Values of Reynold's Numbers" (Dok Ak Nauk, 49, No 5, 1945)

c. Articles Abstracted

"Field of Velocities in a Water Flow During Sudden Increase of Depth," Izv. AN SSR, Otd. tekhn. nauk, 1953, No 4 (RZhMekh, No 2, 1953, No 659)

"The Effect of Turbulence on Heat Transfer in a Pile With a Liquid Reactant," J. Appl. Phys, 1953, 24, No 4 (RZhMekh, No 2, 1953, No 754)

"Laminar to Turbulent Flow in a Wide Open Channel," Proc. Amer. Soc. Civil Engrs, 1953, 79, No 188 (RZhMekh, No 2, 1953, No 756)

"Transverse Circulation in the Bend of a Turbulent Stream in Water Lines of Curved and Right Angle Sections," Izv. AN ArmSSR, 1953, 6, No 1 (RZhMekh, No 3, 1953, No 1208)

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12. MUSINYANTS, Gorgen Mkatichevich

a. Biographic

Prof, TsAGI, 1946

Stalin 2d Prize for instruments for aerodynamic tests, 1943-1944

b. Published Works

[No information]

c. Articles Abstracted

"Automatic Reduction of Wind Tunnel Data," Aeronau. Engng Rev, 1953, 12, No 2 (RZhMekh, No 1, 1953, No 99)

"A Modern Wind-Tunnel Balance," J. Roy. Aeronaut. Soc, 1953, 57, No 512 (RZhMekh, No 3, 1954, No 2514)

13. OSTOSLAVSKIY, Ivan Vasil'yevich (Prof)

a. Biographic

Deputy director of a scientific research institute, 1949

Head, laboratory, TsAGI, 1943

Stalin 3d Prize for speed of airplanes, 1942

Stalin 3d Prize for aerohydrodynamics, 1948

b. Published Works

[No information]

c. Articles Abstracted

"Problem of Greater Speeds of an Airplane," Techn. Rundschau, 1953, 45, No 9, (German) (RZhMekh, No 1, 1953, No 90)

"Comparative Estimate of Swept-Back Straight and Delta Wings," Interavia, 1953, 8, No 1 (French) (RZhMekh, No 1, 1953, No 91)

"Comments in Connection With a Technical Comparison of Swept-Back Straight and Delta Wings," Interavia, 1953, 8, No 1 (French) (RZhMekh, No 1 1953, No 92)

"Profiles of Wings for Higher Piloting," Aero-revue, 1953, 28, No 6 (German) (RZhMekh, No 1, 1954, No 1538)

"New Graphic Method of Precalculating Airplane Characteristics," Bull. techn. Suisse romande, 1953, 79, No 9 (French) (RZhMekh, No 1, 1954, No 1539)

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14. POLIKOVSKIY, Vladimir Isaakovich (Prof)

a. Biographic

Chief, Central Institute of Aircraft Engine Building imeni P. I.
Baranov 1943-1948

Member, TsAGI

Stalin 2d Prize for publications, 1942

b. Published Works

"A Manual for Designers," 1940, 1941, and 1942

"Power Plants in Airplanes," Moscow, 1948

c. Articles Abstracted

"Peculiarities of Design of Refrigerating Turbocompressors," Tr.
Leningr. in-ta kholod. i molochn. prom-sti, 1953, 4, (RZhMekh, No 2, 1953,
No 615)

"Thermodynamics of Mine Ventilation," Colliery Engng, 1953, 30, No 348
(RZhMekh, No 3, 1953, Nos 1103, 1104, 1105, 1106, 1107)

"Theory of Jet Engines. 14. Characteristics of Jet Engines," Vest.
Vozdush. Flota, 1953, No 6 (RZhMekh, No 2, 1954, No 2011)

15. POPOV, L. S.

a. Biographic

Member, TsAGI

b. Published Works

[No information]

c. Articles Abstracted

"Design of a Simple Electronic Flutter Simulator," J. Roy. Aeronaut.
Soc, 1953, 57, No 505 (RZhMekh, No 1, 1953, No 114)

"Flutter and Divergence of Swept-Back Forward Wings," Aeronaut. Res.
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Repts. and Mem, 1953, No 2556 (RZhMekh, No 3, 1954, No 2497)

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"A Method of Calculating Space Free Resonance Modes of an Aircraft,"
J. Roy. Aeronaut. Soc, 1953, 57, No 510 (RZhMekh, No 2, 1954, No 2329)

16. RIZ, P. M.

a. Biographic

Member, TsAGI, 1939

b. Published Works

"On the Flexure of a Stretched Prismatic Bar" (Dok Ak Nauk, 5, 22, No 9, 1939)

"On Deformations of Bars With Slightly Curved Axes" (Dok Ak Nauk, 24, No 2-3, 1939)

"On the Deformations of Naturally Twisted Bars" (Dok Ak Nauk, 23, No 1-5-8, 1939)

"Concerning the Torsion of a Prismatic Bar by Axial Forces Distributed Along Its Side Surface" (Prikl Mat i Mekh, 4, No 2, 1940)

"Large Oscillations of a String Under Arbitrary Initial Stretching" (Prikl Mat i Mekh, 11, No 3, 1947)

"The Theory of Elasticity in Large Deformations Exceeding the Proportional Limit" (Dok Ak Nauk, 59, No 2, 1949)

"Large Deformations and Plasticity" (Prikl Mat i Mekh, 12, No 2, 1948)

"The Asymptomatic Integration of the Equation of the Theory of Elasticity Applied to Lamina and Discs of Various Widths" (Prikl Mat i Mekh, No 3, 1948)

c. Articles Abstracted

"Third Order Elastic Coefficients," Acta crystallogr. 1953, 6, No 4 (RZhMekh, No 2, 1953, No 784)

"Numerical Analysis of Forced Vibrations of Beams," J. Appl. Mech, 1953, 20, No 1 (RZhMekh, No 2, 1953, No 839)

"Diffusion of Energy in Elastic Vibrations," Dok Ak Nauk, ArmSSR, 1953, 16, No 3 (RZhMekh, No 3, 1953, No 1304)

"Longitudinal Vibrations of a Vertical Column by the Method of Laplace Transform," Amer. J. Phys, 1953, 21, No 4 (RZhMekh, No 3, 1953, No 1307)

"Effect of Deformations of Shear on Transverse Vibrations of a Rotating Axis With a Distribution Along the Length of the Disc," Sbornik, AN SSSR, 1953, No 2 (RZhMekh, No 2, 1954, No 2282)

"The Centre of Shear of Aerofoil Sections," J. Roy Aeronaut. Soc, 1953, 57, No 508 (RZhMekh, No 2, 1953, No 868)

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17. SEREBRIYSKIY, Yakov Moiseyevich
 - a. Biographic

Scientific Associate, TsAGI, 1947

Dr Tech Sci

Stalin 2d Prize for wings for high-speed planes, 1946
 - b. Published Works

"Streamline Motion of Fluids Past Bodies in Revolution" (Dok Ak Nauk, 41, No 4, 1943)

"Flow Past a Symmetrical Aerofoil" (Dok Ak Nauk, 49, No 7, 1945)
 - c. Articles Abstracted

"The Solution of Lifting-Plane by Vortex-Lattice Theory," Aeronaut. Res. Council Repts. and Mem, 1953, No 2591 (RZhMekh, No 1, 1953, No 95)

"Charts of the Wave Drag of Wings at Zero Lift," Aeronaut. Res. Council Papers, 1953, No 116 (RZhMekh, No 1, 1953, No 96)

"Measurements of Maximum Lift on 26 Aerofoil Sections at High Mach Number," Aeronaut. Res. Council Repts. and Mem, No 2678, 1953, (RZhMekh, No 2, 1953, No 582)

"Wind-Tunnel Tests of the Stalling Properties of an 8% Thick Symmetrical Section With no Suction Through a Porous Surface," Aeronaut. Res. Council Repts. and Mem, No 2666 (RZhMekh, No 2, 1953, No 583)

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"Effect of the Proximity of the Ground on the Lift Force, Frontal Resistance, and Landing and Take-Off Characteristics of an Airplane," Vest Vozdush Flota, 1953, No 6 (RZhMekh, No 2, 1953, No 592)

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"An Investigation of the Use of an Auxiliary Slot to Re-establish Laminar Flow on Low Drag Aerofoils," Aeronaut. Res. Council Repts. and Mem, 1953, No 2742 (RZhMekh, No 3, 1954, No 2598)

"Potential Velocity in the Flowing Around a Supporting Surface in an Incompressible Fluid," Z. Angew. Math. und Mech, 1953, 33, No 5/6 (German) (RZhMekh, No 1, 1954, No 1597)

18. SRETENSKIY, Leonid Nikolayevich

a. Biographic

Member, Geophysics Institute, Dept Physicomathematical Sciences, Acad Sci, 1945-1949

Corresponding Member, Acad Sci USSR, 1939

Member, TsAGI

b. Published Works

"Demonstration of the Theorem of Hilbert-Schmidt" (Dok' Ak Nauk, 52, No 3, 1946)

"Forces Acting Upon a Sphere While in Motion Along a Circular Path Under the Surface of a Fluid" (Dok Ak Nauk, 54, No 9, 1946)

"Diffusion of the Vortex Pair" (Izv. Ak Nauk SSSR, OTN, No 3, 1947)

"Theory of Tides of Long Period" (Izv. Ak Nauk SSSR, Ser. Geog. i Geofiz, 11, No 3, 1947)

"Waves Formed by an Underwater Source Located Under the Surface of a Sphere" (Ibid, 13, No 6, 1949)

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"A Planar Problem on the Propagation of Waves in a Tank From an Underwater Source" (Ibid, No 3, 1950)

c. Articles Abstracted

"Calculation of 'Lateral' Friction in the Dynamics of Sea Flows," Dok Ak Nauk, 1953, 88, No 5 (RZhMekh, No 1, 1953, No 137)

"On Axially Symmetric Flow and the Method of Generalized Electrostatics," Quart. Appl. Math, 1953, 10, No 4 (RZhMekh, No 1, 1953, No 138)

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- "Problem of Wave Formation During the Movement of a Ship," Prik Mat i Mekh, 1953, 17, No 3 (RZhMekh, No 2, 1953, No 702)
- "Passage of Flat Waves Under an Obstacle," C. r. Acad. sci, 1953, 236, No 7 (RZhMekh, No 1, 1953, No 166)
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- "Vibrations of a Contour Floating on the Surface of a Heavy Fluid," Prik Mat i Mekh, 1953, 17, No 2 (RZhMekh, No 1, 1953, No 168)
- "Mass Transport in Gravity Waves," Proc. Cambridge Philos. Soc, 1953, 49, No 1 (RZhMekh, No 1, 1953, No 169)
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- "Approximate Solution of the Problem of a Solitary Wave," C. r. Acad. sci, 1953, 236, No 26 (RZhMekh, No 1, 1954, No 1633)
- "Diffraction of Waves Around a Moving Cylindrical Boat," Prik Mat i Mekh, 1953, 17, No 4 (RZhMekh, No 1, 1954, No 1634)
- "Contribution to the Theory of Surface and Inner Waves," Helv. phys. acta, 1953, 26, No 3/4 (RZhMekh, No 1, 1954, No 1635)
- "An Experimental Study of Standing Waves," Proc. Roy. Soc, 1953, A218, No 1132 (RZhMekh, No 1, 1954, No 1636)
- "On the Decrease of Velocity With Depth in an Irrotation Water Wave," Proc. Cambridge Philos. Soc, 1953, 49, No 3 (RZhMekh, No 3, 1954, No 2571)
- "Application of the Motion of Group Velocity to the Problem of Wave Propagation on the Surface of a Deep Wave," Ann. geophys, 1953, 9, No 2, (RZhMekh, No 3, 1954, No 2572)
- "Theory of Rectangular Ports of Profound Depth," C. r. Acad. sci, 1953, 236, No 16, (RZhMekh, No 2, 1954, No 2134)
- "Observations on the Recent Work of M. Miche," J. Math pures et appl, 1953, 32, No 1 (RZhMekh, No 1, 1953, No 182)
- "The Dispersion of Surface Waves on Multilayered Media," Bull. Seismol. Soc. Am, 1953, 43, No 1 (RZhMekh, No 3, 1953, No 1302)

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19. USHAKOV, Konstantin Andreyevich

a. Biographic

Scientific Associate, TsAGI, 1943-1949

Director, Research Institute, Kazan', 1947

Stalin 2d Prize for airplane construction, 1942

Stalin 3d Prize for centrifugal blowers, 1948

b. Published Works

[No information]

c. Articles Abstracted

"Regulation of Rotary Compressors and the Cost of Compressed Air,"
Giesserei, 1953, 40, No 5 (RZhMekh, No 2, 1953, No 614)"Calculation of a Single Stage Hydrodynamic Transformer in a System
of Maximum Efficiency," Avtomob. 1 trakt. prom-st', 1953, No 3 (RZhMekh, No 1,
1953, No 149)

20. VLADIMIROV, A. N.

a. Biographic

Member, TsAGI, 1941

b. Published Works

"Glide of a Level Keel-Shaped Plane" (Dok Ak Nauk, 33, No 2-3, 1941)

c. Articles Abstracted

"Winds," Autocar, 1953, 98, No 2985 (RZhMekh, No 1, 1953, No 112)

"Some Basic Concepts for Analyzing Dynamic Flight-Test Data," Inst
of Aeronaut. Sci, Preprint No 392 (RZhMekh, No 1, 1953, No 113)"Towing Tank Tests on a Large Six-Engine Flying Boat Seaplane, to
Specification 10/46 Princess," Aeronaut. Res. Council Repts. and Mem, 1953,
No 2641 (RZhMekh, No 2, 1953, No 660)

21. YUDIN, Yevgeniy Yakovlevich

a. Biographic

Senior Scientific Associate, TsAGI, 1951

Member, Laboratory No 4, TsAGI, 1943

Engineer, Ukhta-Izhma, Ukhta-Pechora, 1947

Stalin 2d Prize for oil extraction, 1946

Stalin 3d Prize for ventilators for blind mine faces, 1950

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b. Published Works

"Turbulent Sounds of Rotating Rods" (Zhur Tekh Fiz, 14, No 9, 1944)

c. Articles Abstracted

"The Aerodynamic Profile as Acoustic Noise Generator," J. Aeronaut. Sci, 1953, 20, No 4 (RZhMekh, No 3, 1953, No 1076)

22. ZVOLINSKIY, N. V.

a. Biographic

Member, Geophysics Institute, Dept Physicomath Sci, Acad Sci USSR, 1948-1951

Member, TsAGI, 1939

b. Published Works

"On the State of Stress of a Stretched and Twisted Bar" (Dok Ak Nauk, 22, No 9, 1939)

"Plane Waves in an Elastic Semispace Covered With a Liquid Layer" (Dok Ak Nauk, 56, No 1, 1947)

"Surface Plane Waves in an Elastic Semispace and a Liquid Layer Covering It" (Dok Ak Nauk, No 4, 1947)

"Diffusion of Shock From a Point Impulse in an Elastic Semispace Covered by a Liquid Layer" (Dok Ak Nauk, 59, No 6, 1948)

"The Rules of Selection for Beta-Disintegration" (Dok Ak Nauk, 65, No 2, 1949)

"Analysis of Head Wave Occurring in the Boundary Between Two Elastic Liquids" (Izv, Ak Nauk SSSR, Ser. Geog. Geofiz, 15, No 1, 1951)

c. Articles Abstracted

"The Solution of Problems in Second Order Elasticity Theory," J. Rational Mech. and Analysis, 1953, 2, No 1 (RZhMekh, No 3, No 1252)

"Presentation of a Dynamic Vector of Disturbance by Unrelated Wave Vectors," Dok. Ak Nauk, UzbSSR, 1953, No 3 (RZhMekh, No 3, 1953, No 1299)

"Diffraction of Elastic Waves With Reference to a Semiplane," Z. angew. Math. und Mech, 1953, 33, No 1 (RZhMekh, No 3, 1953, No 1300)

"Surface Motion Associated With Obliquely Incident Elastic Waves," J. Acoust. Soc. Amer, 1953, 25, No 2 (RZhMekh, No 3, 1953, No 1301)

"Boundary Problem of the Theory of Steady Elastic Vibrations," Usp. Mat. Nauk, 1953, 8, No 3 (RZhMekh, No 2, 1954, No 2273)

"Application of the Principle of Rayleigh to the Study of Dispersion of Surface Waves," Ann. geophys, 1953, 9, No 3 (RZhMekh, No 2, 1954, No 2275)

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